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A Data-Driven Approach in Establishing Ideal Quiz Question Timings

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ABSTRACT

In the realm of modern education, the integration of technology has transformed traditional assessment methods. This article explores the implementation of a data-driven approach to optimize quiz question timings, utilizing both a mobile and web application for student evaluation through multiple-choice questions. The study aims to enhance the efficiency of assessments by analyzing student responses and tailoring question durations based on data-driven insights. The research leverages two distinct platforms: a mobile application and a web-based system, both designed to facilitate seamless student engagement. Through these applications, students can access quizzes featuring multiple-choice questions, providing a comprehensive understanding of their knowledge and pro-efficiency in various subjects. The focus of the investigation lies in harnessing the power of data analytics to refine the timing of each question, thereby optimizing the overall assessment experience. The findings from this study contribute valuable insights into the dynamics of student engagement and performance during assessments. By identifying optimal question timings, educators can create a more adaptive and personalized learning environment. This approach not only benefits students by aligning assessments with their cognitive processes but also aids educators in refining their teaching strategies based on real-time, data-driven feedback. Furthermore, the article delves into the technological aspects of mobile and web applications, highlighting their user-friendly interfaces, secure assessment environments, and compatibility with various devices. The implementation of these applications reflects a commitment to modernizing educational practices while ensuring accessibility and inclusivity.

Keywords: e-learning, evaluation, educational, platform, mobile